ecosaire
BY DECTRON

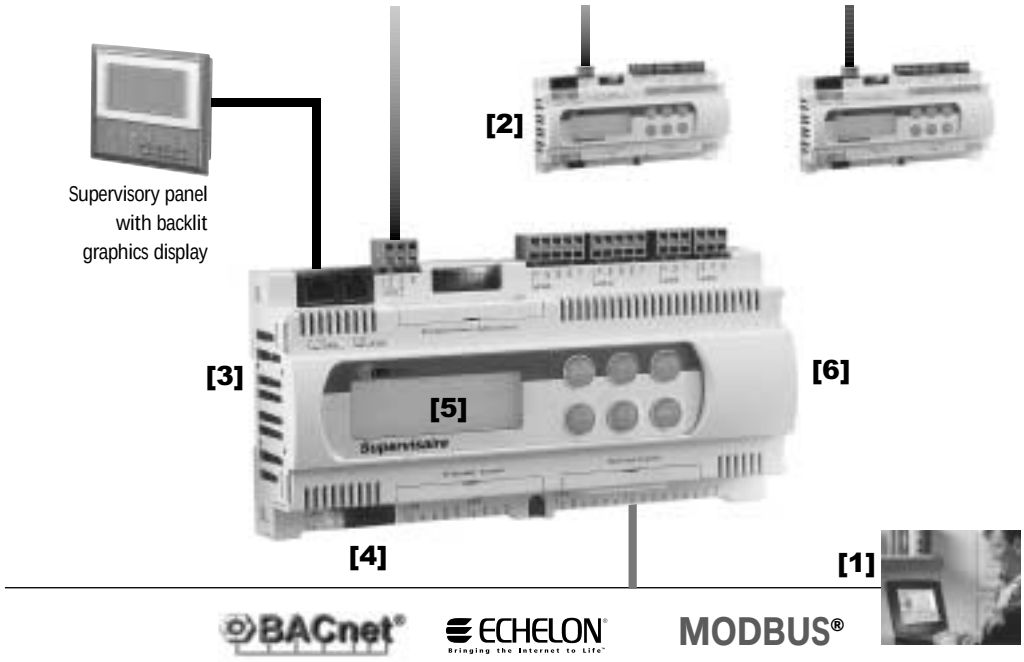
Precision Environmental Control

Supervisaire®

OWNERS MANUAL

Microprocessor Controls

The Supervisaire® Microprocessor Controls provide extremely user-friendly, programmable monitoring and control for all Ecosaire® Precision Environment Control Systems. Individual Ecosaire® units can be connected together on a built-in local area network together with a supervisory panel complete with a backlit graphics display for robust redundant environment control. At the same time, the network can be connected to a personal computer supervisory system either directly or via modem, or to a BACNET™, ECHELON® or MODBUS™ network.



[1]Communication standards
Thanks to its multiprotocol software, Ecosaire® systems can be connected directly to various communication standards including BACNET™, ECHELON®, MODBUS™ and other RS485-based protocols.

[2]Built-in Local Area Network
The Ecosaire® units can be easily connected to each other with a built-in local area network together with a supervisory panel with a backlit graphics display to facilitate redundant system design, load sharing, remote monitoring and control.

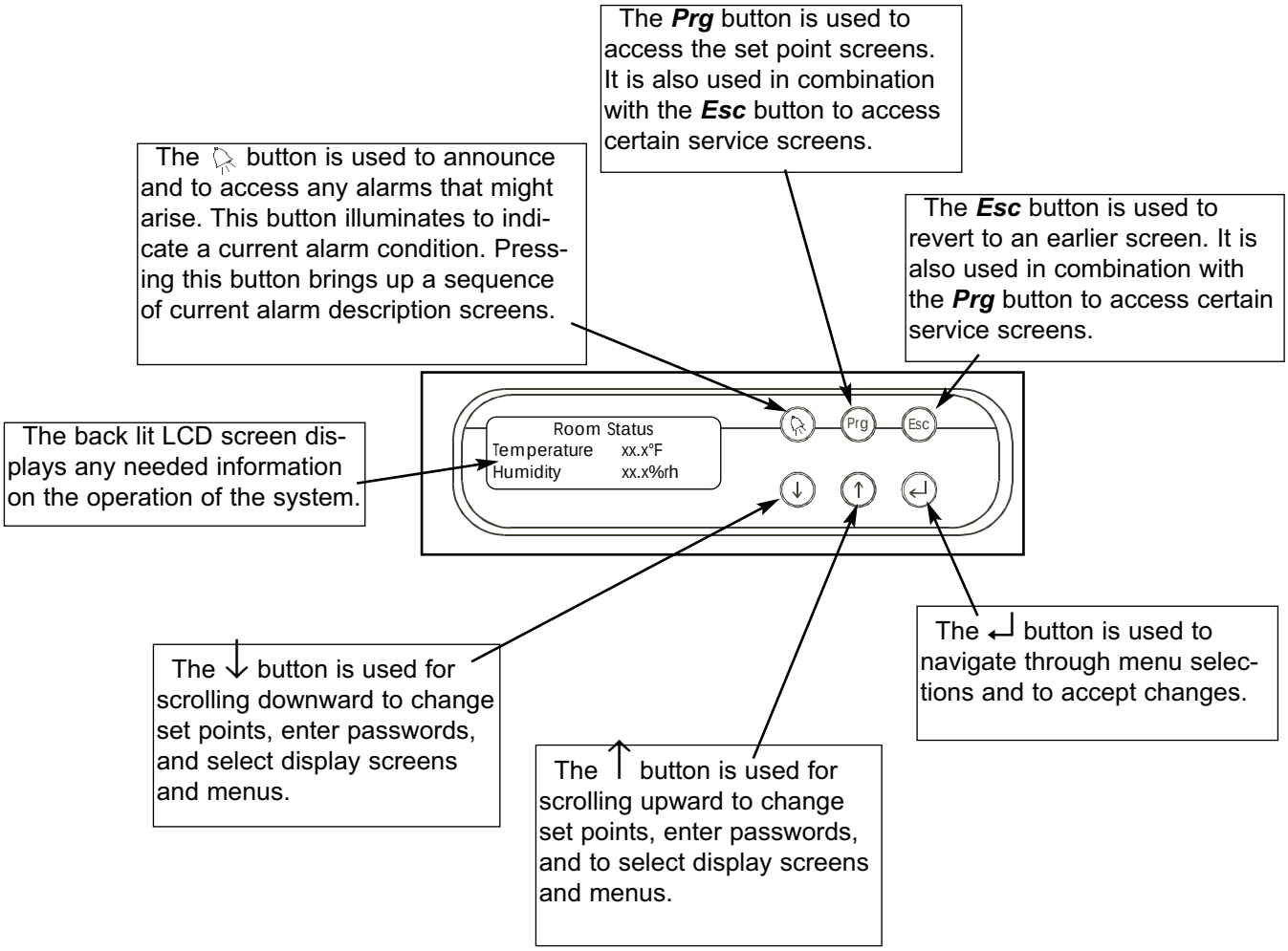
[3]Event Saving and Alarm Log
The high capacity of the flash memory and the clock with built-in back-up battery allows the storage of all active alarms, temperature, humidity and other sensor input information as well as status of the controlled devices for very long periods.

[4]Ease of Programming
The Supervisaire® can be easily and quickly programmed for software customization. The software can be transferred directly from a personal computer, with a “plug and play” FLASH memory key, or by using a modem.

[5]Backlit User Interface
The unit mounted backlit LCD panel is large and easy to read (4 x 20 characters) and the simple 6-key layout provides an easy to use interface for the operator. English language menus (other languages available) walk the user step-by-step through the monitoring and control of the system, which includes built-in diagnostics.

[6]High Execution Speed
A powerful 16-bit microprocessor ensures high program execution speed and efficient real time management of even the fastest transients.

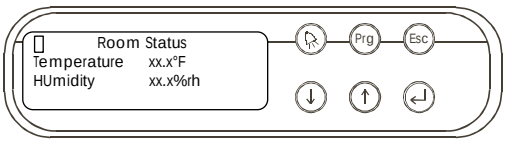
The Supervisaire® Controller handles all the functions of the Ecosaire Precision Control Systems. The initial start-up at installation requires the manual input of the set points and permission to run. After this all functions are fully automatic.


The *Prg* button is used to access the set point screens. It is also used in combination with the *Esc* button to access certain service screens.
The button is used to announce and to access any alarms that might arise. This button illuminates to indicate a current alarm condition. Pressing this button brings up a sequence of current alarm description screens.
The *Esc* button is used to revert to an earlier screen. It is also used in combination with the *Prg* button to access certain service screens.
The back lit LCD screen displays any needed information on the operation of the system.
Room Status
Temperature xx.x°F
Humidity xx.x%rh
Prg
Esc
The button is used for scrolling downward to change set points, enter passwords, and select display screens and menus.
The button is used for scrolling upward to change set points, enter passwords, and to select display screens and menus.
The button is used to navigate through menu selections and to accept changes.

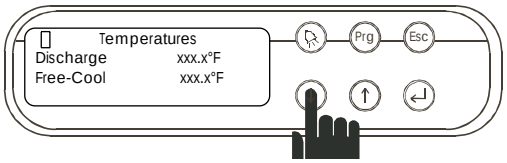
Security

The Supervisaire® Controller is protected by three password levels. Set points, run enabling, and site-specific setup values are protected by a User Password. Detailed service settings and information are protected by a Service Password. Model specific operation constants are protected by a Factory Password. Passwords are automatically cleared after two minutes pass without manual inputs.

ROOM STATUS is the default display and will appear automatically after a short delay. If it is necessary to select this display immediately, access **UNIT STATUS** first by pressing ***Esc***, then press ↓.
ROOM STATUS shows room dry bulb temperature as **Temperature**, and relative humidity as **Humidity**.

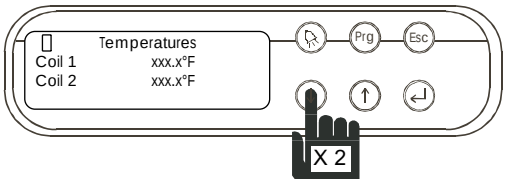


Press ↓ → The temperatures of the **Supply Air** and of the **Free-Cool** fluid (if any) are shown in the first temperature screen.



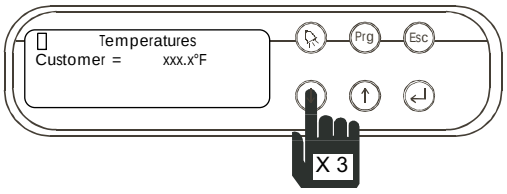
Press ↓

↓ x 2 → The temperatures of the **Heat Exchangers** of Free-Cool units are available by pressing ↓ twice.



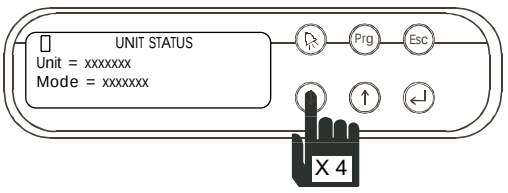
Press ↓

↓ x 3 → The **customer defined temperature**, if any, is available by pressing ↓ three times.

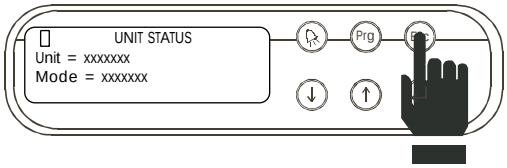


Press ↓

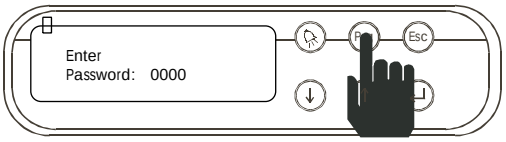
↓ x 4 → The **UNIT STATUS** is available by pressing ↓ four times, or by pressing ***Esc***.



Esc →

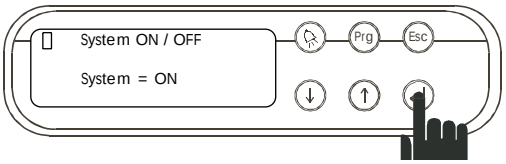


User control menus are available by pressing ***Prg.***

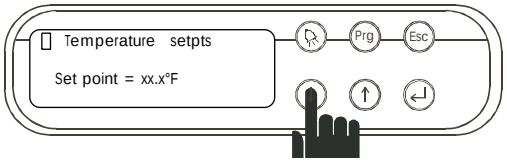


Enter the password as discussed in the section “Enter User Password”.

The first screen is **System ON / OFF**. See section “Enable Operation” below. This will not require input except on initial startup or after a manual shut-down.

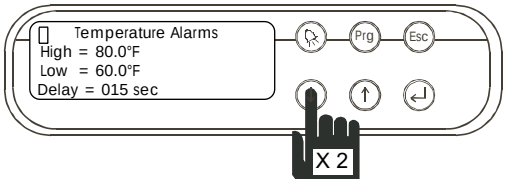


Press ↓ → To access the **Temperature Set Point** screen, press ↓ once.



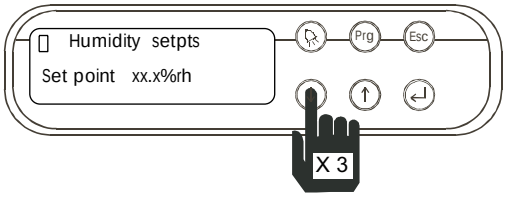
Press ↓

↓x 2 → To access the **Temperature Alarms** screen, press ↓ twice.



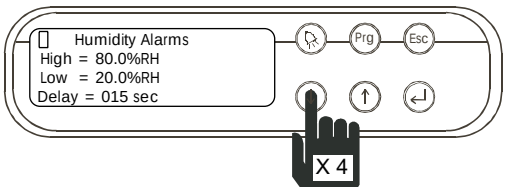
Press ↓

↓x 3 → To access the **Humidity Set Point** screen, press ↓ three times.

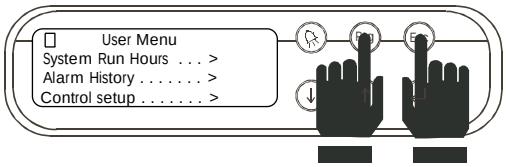


Press ↓

↓x 4 → To access the **Humidity Alarms** screen, press ↓ four times.

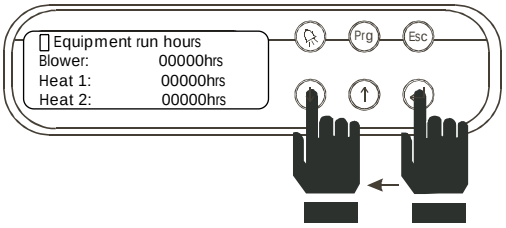


Component run times are available by pressing ***Prg*** and ***Esc*** at the same time to access User menu.



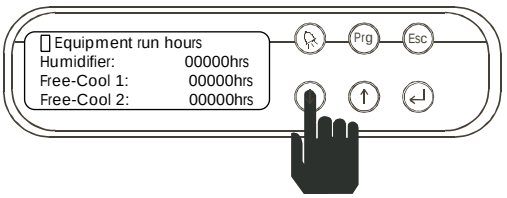
Press (↵ + ↓)

→ The first screen shows the run times for the main blower and the heaters.



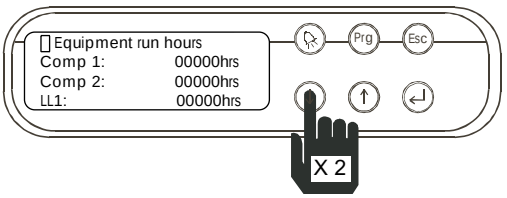
Press ↓

(↓) → The next screen shows the run times for the humidifier and the Free-Cool valves, if any.



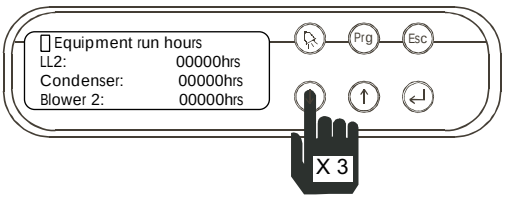
Press ↓

(↓x 2) → The next screen shows the run times for the compressors and the #1 liquid line solenoid valve.



Press ↓

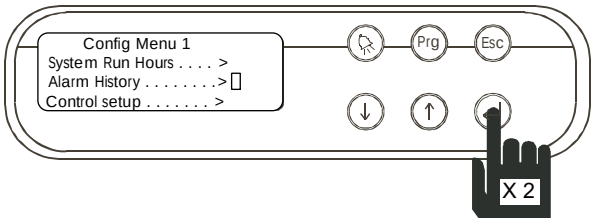
(↓x 3) → The next screen shows the run times for the #2 liquid line solenoid valve, the condenser, and the second blower.



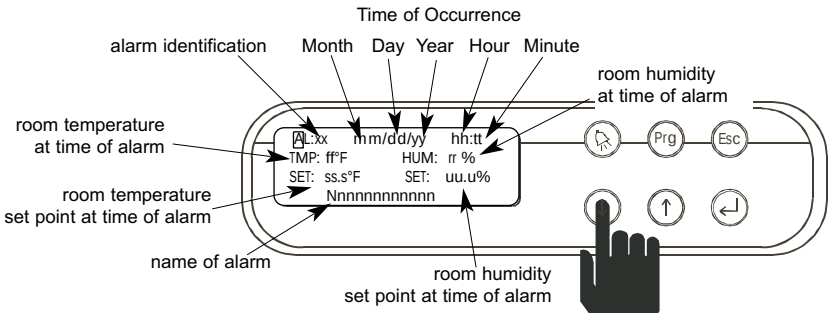
To Alarm History, next page

From User menu

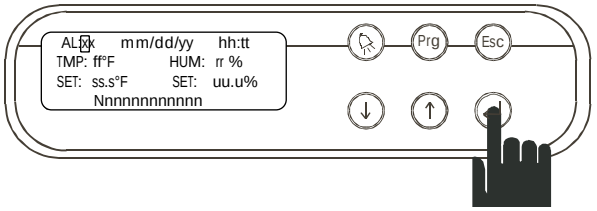
Press (↵ x 2) → To **select Alarm History**, press ↵ twice.

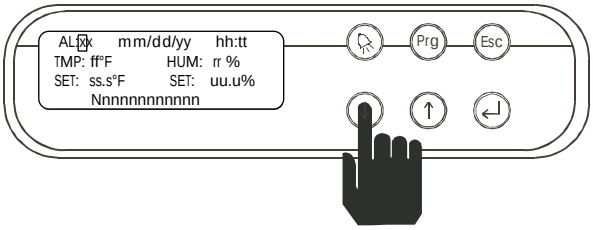


To **view the last alarm**, press ↓.



To **view previous alarms**, press ↵ to move the cursor to the alarm identification, then press ↓ repeatedly.

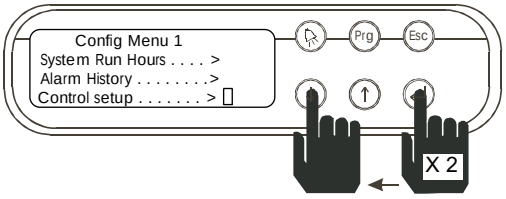




To Control menu, next page.

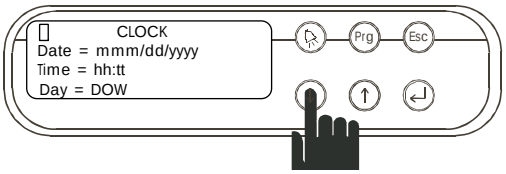
From User menu

Press
(↵ x 3) + ↓ → To **select Control setup**, press ↵ three times, then ↓. Enter the password as discussed in the section “Enter User Password”.



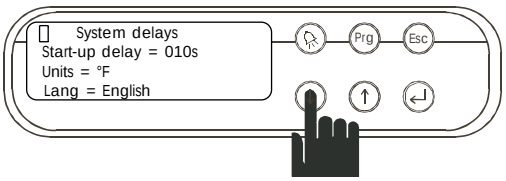
↓

The first screen is the clock control. See the section “Clock”.



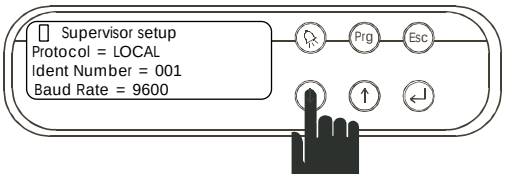
↓

The next screen sets up the start-up delay, the temperature display units, and the display language.

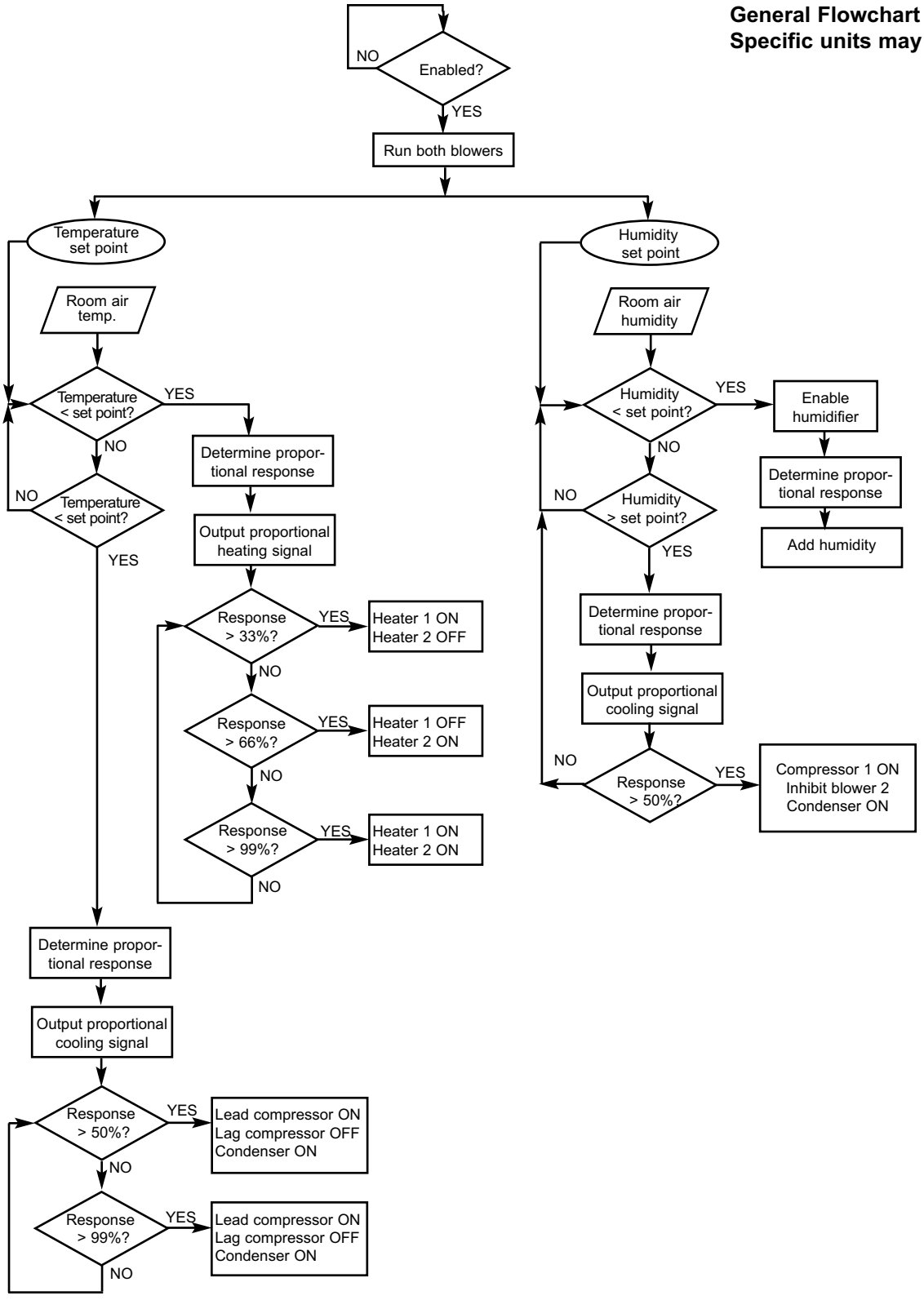


↓

The next screen sets up the connection to a supervisor, if any.



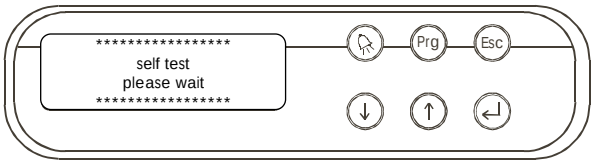
General Flowchart
Specific units may vary



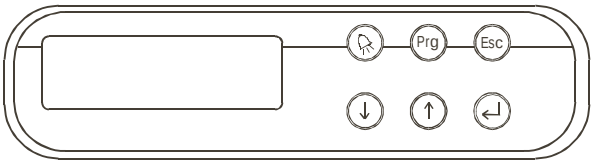
Function / Description	Range	Default	Unit
Network address	not yet available		
ON/ OFF mode	manual or remote		
Start delay	0 - 999	10	sec
Heating steps	2, 3 or proportional	2	
Cooling steps	1, 2, or proportional	2	
Humidification steps	proportional	proportional	
Dehumidification steps	2, 3	3	
Temperature set point	40 - 85	70	°F
High temp. alarm	70 - 90	80	°F
Low temp. alarm	40 - high alarm	50	°F
Temperature band[1]	1 - 30	5	°F
Humidity set point	40 - 80	50	%
High humidity alarm	60 - 80	80	%
Low humidity alarm	20 - high alarm	20	%
Humidity band [1]	1 - 30	5	%
High voltage limit [2]	nominal + 10%		
Low voltage limit [2]	nominal - 10%		
Temperature control	proportional or proportional + integral		
Temperature integral time	100 - 999		sec
Humidity control	proportional or proportional + integral		
Humidity integral time	100 - 999		sec
Cooling type	DX or proportional valve		
Free-Cool coil high alarm	60 - 99	80	°F
Free-Cool coil low alarm	30 - high alarm	34	°F
Free-Cool coil alarm delay	5 - 300	15	sec
Heater ON/OFF	0 - 99% of temperature band		
Language	English (French & Spanish not yet available)		
Temperature sensor calibration	± 10		°F
Humidity sensor calibration	± 10		%
Supply air temperature alarm	100-150°F	130	°F
Compressor rotation	ON / OFF		
Compressor rotation time	5 -999		hours
Temperature display	0 - 99		°C or °F
Humidity display	0 - 99		%
Blower 1 run time	0 - 99,999		hours
Blower 2 run time	0 - 99,999		hours
Compressor 1 run time	0 - 99,999		hours
Compressor 2 run time	0 - 99,999		hours
Heater 1 run time	0 - 99,999		hours
Heater 2 run time	0 - 99,999		hours
Free-Cool valve 1 run time	0 - 99,999		hours
Free-Cool valve 2 run time	0 - 99,999		hours
Liquid line valve 1 run time	0 - 99,999		hours
Liquid line valve 2 run time	0 - 99,999		hours
Condenser run time	0 - 99,999		hours
Alarm history	50		events

[1] not deadband [2] per NEMA MG-1

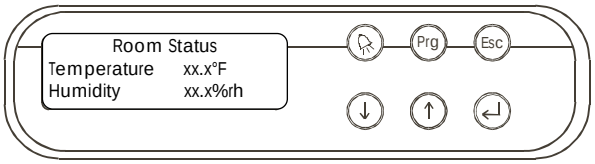
On **initial application of power**, the panel will appear as shown. Wait while the controller checks its internal functions.



The **system information** is displayed automatically after the SELF TEST screen. The display will appear as shown.



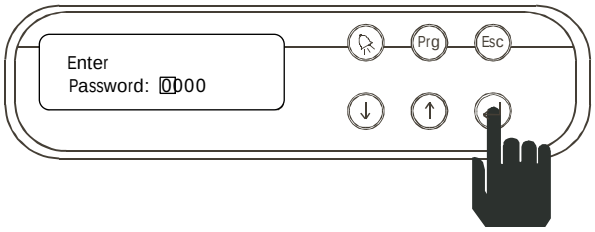
Room Status is the default screen. It appears automatically after the display of system information. Room Status will appear automatically after no buttons are pushed for a certain amount of time.



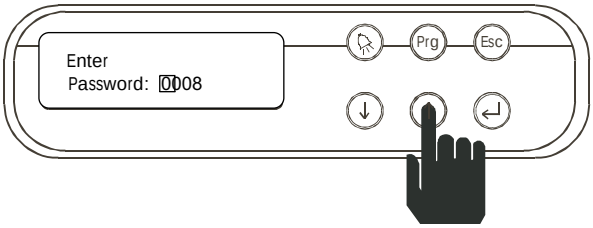
For Setup go to next page.

NOTE:
The password will be cleared automatically after two minutes of no button activity.

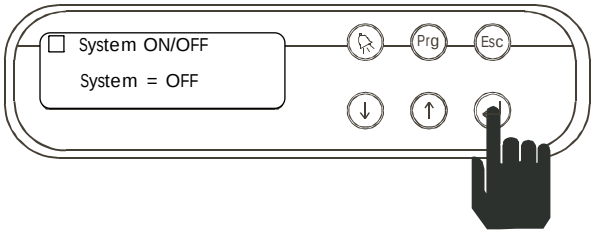
Some settings require the User Password. To **enter the password** when a screen calls for it - press ↵ to move the cursor to the password.



Press ↑ until the password reads “0008”.



Press ↵.

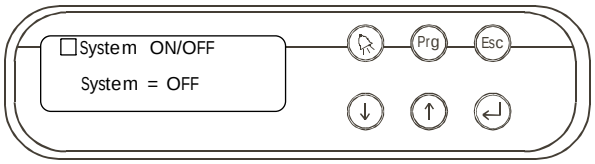


NOTE:
The password will be cleared automatically after two minutes of no button activity.

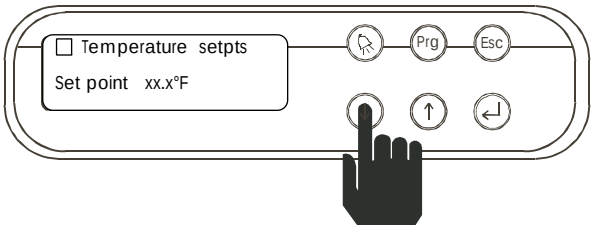
For Setup go to next page.

Note: This adjustment requires the user password, see Password page.

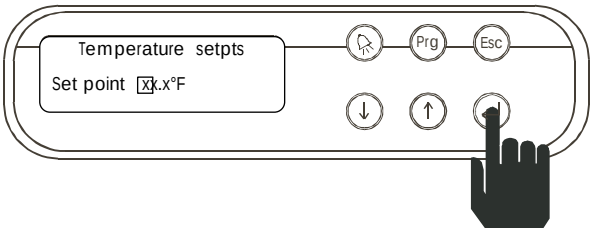
To adjust the **temperature set point** screen, first press ***Prg***, enter the password, and press ↵, as discussed in the section “Enter User Password”. The screen will appear as shown.



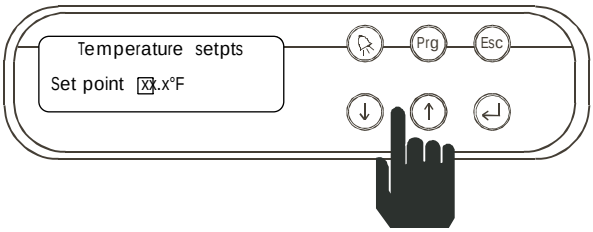
Press ↓ once.



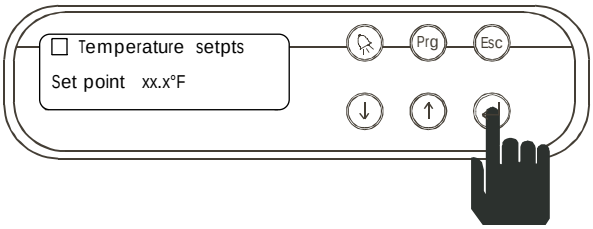
Press ↵ to move the cursor to the set point.



To **change the temperature set point**, press either ↑ or ↓ to select the desired temperature. The longer the button is held, the faster the set point changes.



Press ↵ to store the new set point.
The cursor moves to the top left corner.



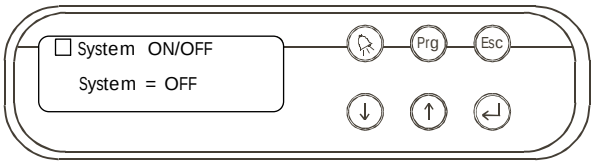
For Setup go to next page.

Set Temperature Alarms — Setup

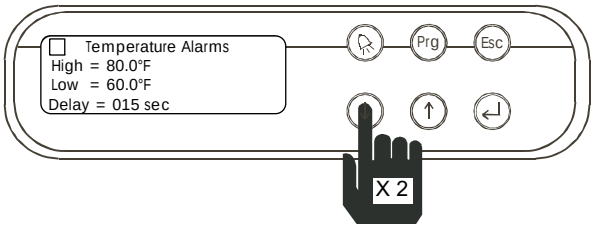
Note: This adjustment requires the user password, see Password page.

The temperature alarms are factory set for High = 80°F and Low = 60°F. If the room temperature goes over “High” or under “Low” for a period greater than “Delay”, an alarm will be registered. Unit operation will not be affected. These settings can be changed as below.

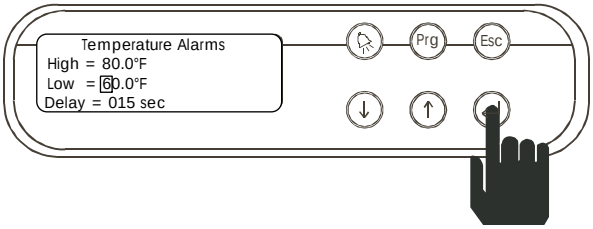
Press ***Prg***, **enter the password**, and press **ENTER,** as discussed on the Enter User Password page. The screen will appear as shown.



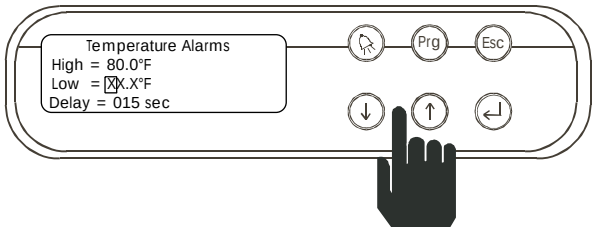
To access the **temperature alarm set point** screen, press ↓ twice.



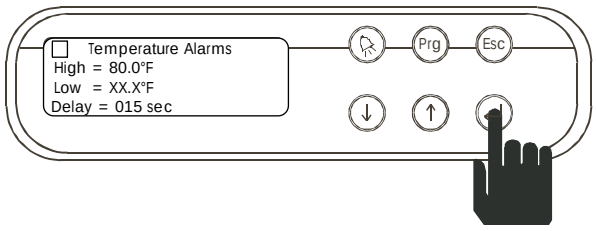
To **select the alarm set point to change**, press ↵ repeatedly to move the cursor to the desired position. The example is for low temperature alarm set point.



To **change the set point**, press either ↑ or ↓.



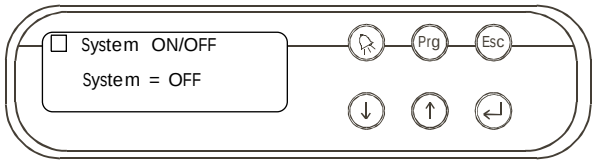
To **store the new value**, press ↵ repeatedly to move the cursor back to the top left corner.



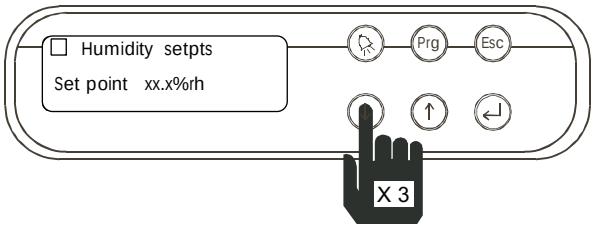
For Setup go to next page.

Note: This adjustment requires the user password, see Password page.

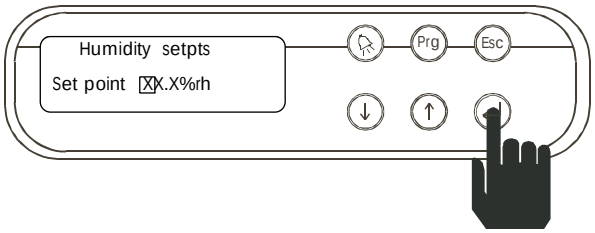
Press ***Prg***, **enter the password**, and press ↵, as discussed on the Enter User Password page. The screen will appear as shown.



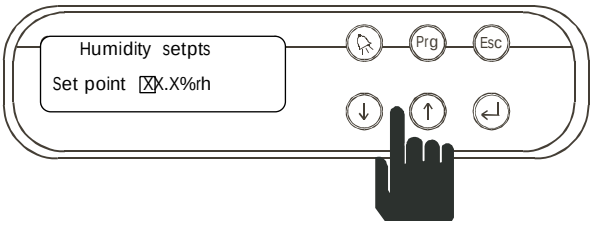
To **access the humidity set point screen**, press ↓ three times.



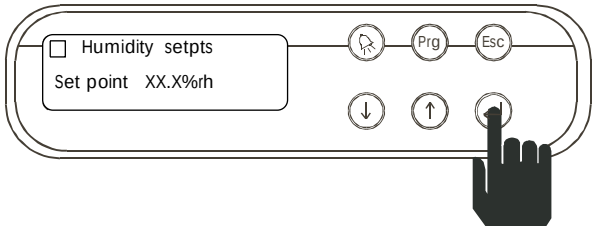
To **select the humidity set point** press ↵ to move the cursor to the set point.



To **change the humidity set point**, press either the ↑ or the ↓ button to select the desired temperature. The longer the button is held, the faster the set point changes.



To **store the new set point**, press ↵. The cursor moves to the top left corner.

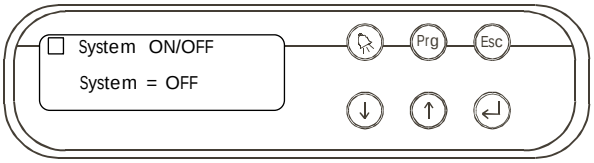


For Setup go to next page.

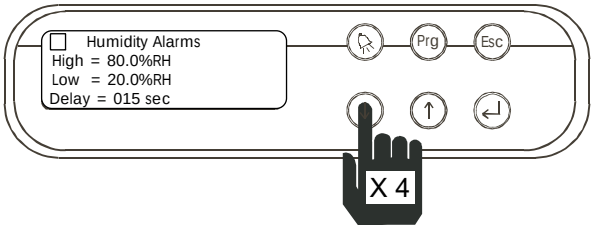
Note: This adjustment requires the user password, see Password page.

The humidity alarms are factory set for High=80% and Low=20%. If the room temperature goes over “High” or under “Low” for a period greater than “Delay”, an alarm will be registered. Unit operation will not be affected. These settings can be changed as below.

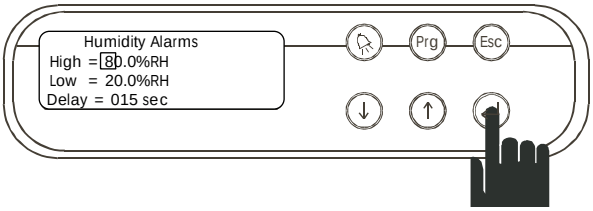
Press ***Prg***, **enter the password** as discussed on the Enter User Password Page, and press ↵. The screen will appear as shown.



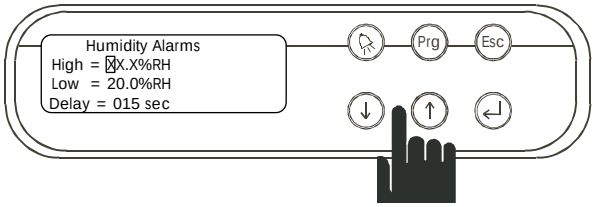
To **access the humidity alarm set point screen**, press ↓ four times.



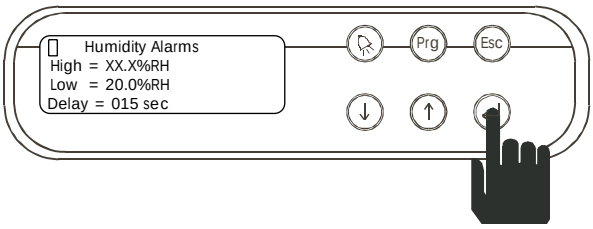
To **select the set point to change**, press ↵ repeatedly to move the cursor to the desired position. The example is for the High humidity alarm set point.



To **change the set point**, press either the ↑ or the ↓ button.



To **store the new value**, press ↵ repeatedly to move the cursor back to the top left corner.

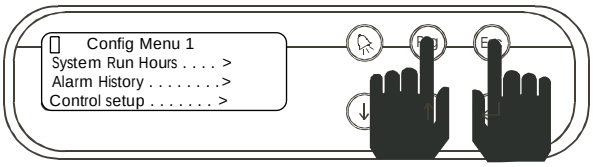


For Setup go to next page.

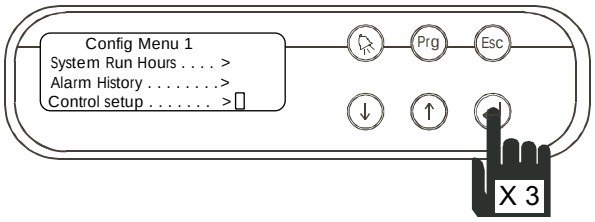
Note: This adjustment requires the user password, see Password page.

The clock is set at the factory for date and Eastern Standard Time. These settings can be changed as below.

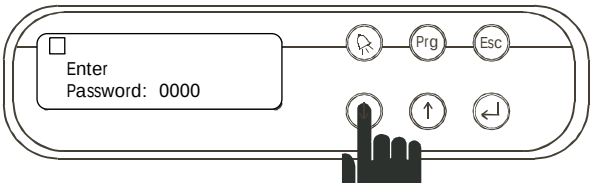
To **access Configuration Menu 1**, press ***Prg*** and ***Esc*** at the same time.

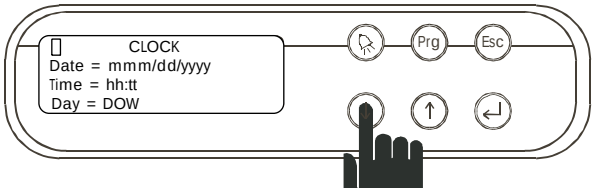


To **select Control Setup**, press ↵ three times.

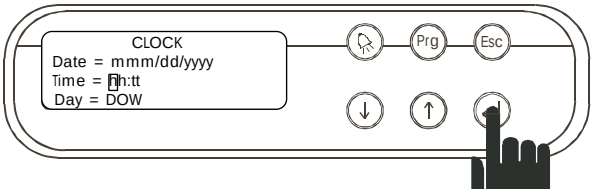


Press ↓ to **view the CLOCK menu**. If the password has cleared automatically, as discussed on the **Enter User Password** page, you will be asked for it again. Follow the instructions in the “Enter User Password” section.

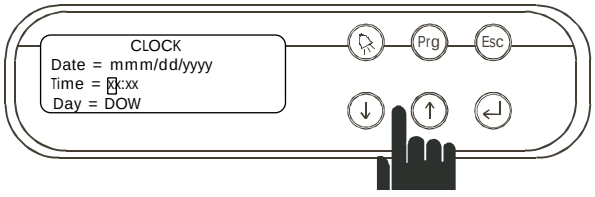




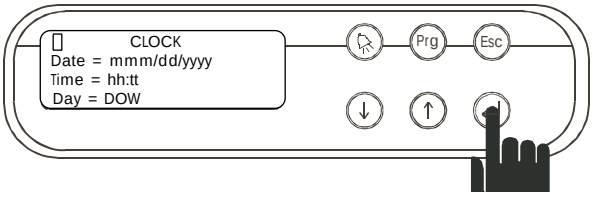
To **change the clock**, press ↵ repeatedly until the cursor is at the desired value.The example is to change the hour.



Press either ↑ or ↓ to change the selected value.



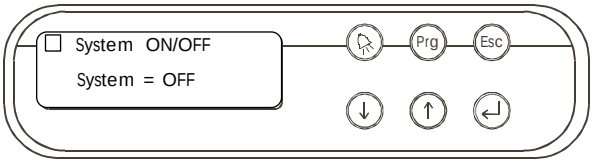
To store the setting, press ↵ until the cursor is back in the upper left corner.



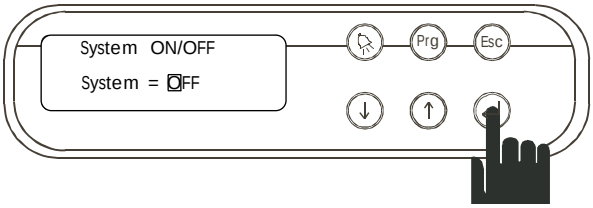
For Setup go to next page.

Note: This adjustment requires the user password, see Password page.

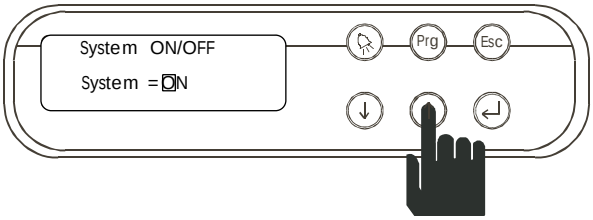
To **access the System ON/OFF menu**, press ***Prg*** and enter the password as discussed in the Enter User Password page. The screen will appear as shown.



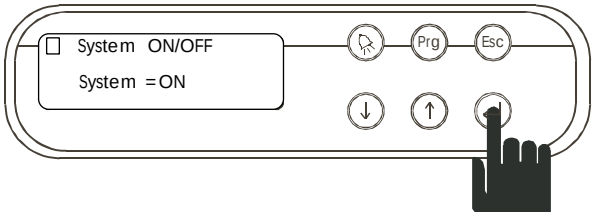
Press ↵ to move the cursor under “OFF”.



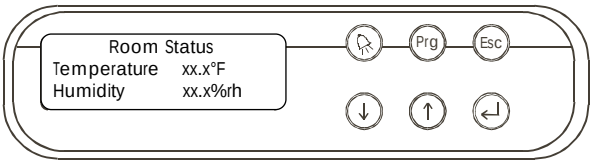
Press ↑ to change “OFF” to “ON”.



To **store the setting**, press ↵ to return the cursor to the upper left corner.

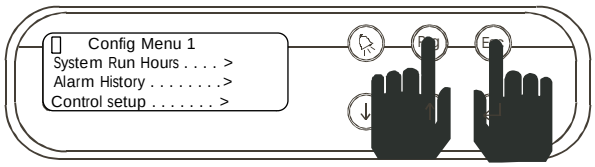


The unit is now operational. After a short delay, the display will return to the default **Room Status** screen.

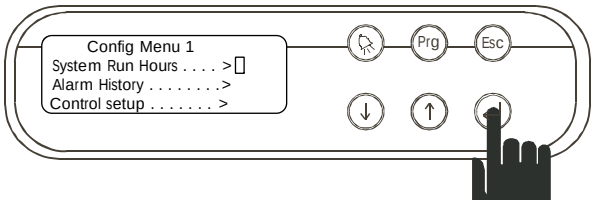


End of Setup Section

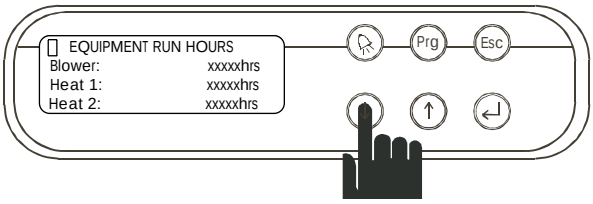
Select **Configuration Menu 1** by pressing ***Prg*** and ***Esc*** at the same time.



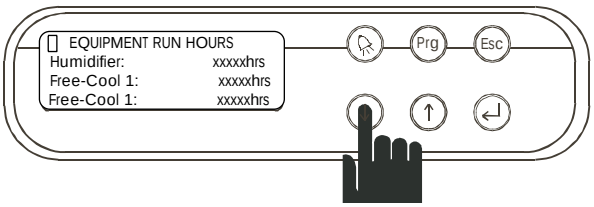
Select **System Run Hours** by pressing ↵.



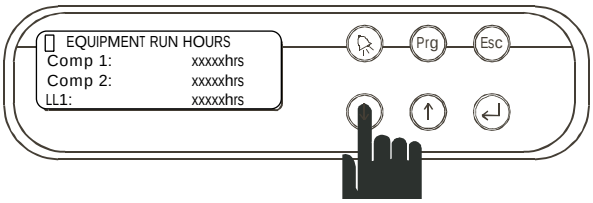
To view the run times for the **BLOWER** and the **HEATERS**, press ↓.



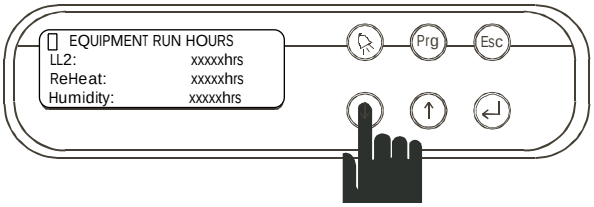
To view the run times for the **HUMIDIFIER** and the **Free-Cool VALVES** (if any)**,** press ↓ again.



To view the run times for the **COMPRESSORS** and the number 1 refrigerant **Liquid Line VALVE,** press ↓ again.

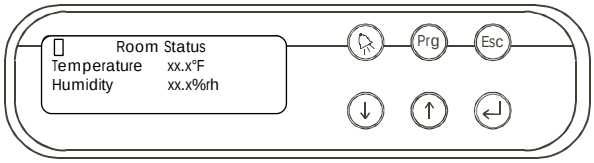


To view the run times for the number 2 **Liquid Line VALVE**, the **reheat valves** (if any), and **BLOWER 2,** press ↓ again.

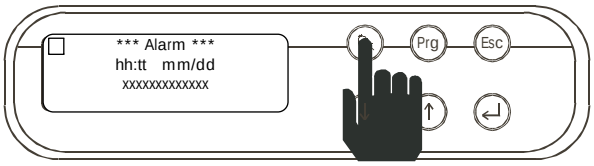


The display will return to ROOM STATUS after a short delay.

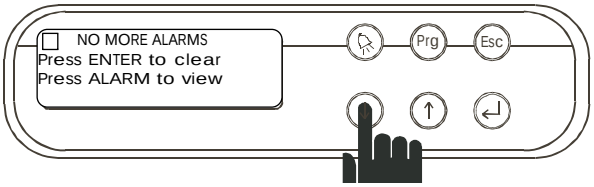
If an alarm other than Power Restart is registered, the ALARM button (Z) will light and an audible alarm will sound.



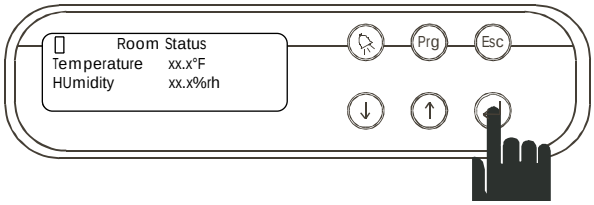
To **view the alarm information**, press **ALARM**. In the example, the hour of occurrence is “hh”, the minute of occurrence is “tt”, the month of occurrence is “mm”, the day of occurrence is “dd”, and the name of the alarm is “xxxxxxxxx”.



To **view all the current alarms**, press ↓ repeatedly noting each alarm. Eventually the screen will show “No more alarms”.

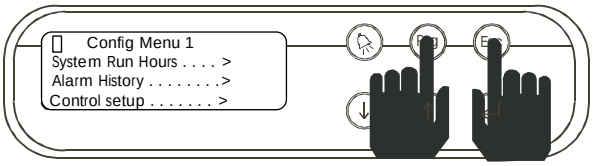


To **clear the current alarms**, press ↵. The alarms are stored in the Alarm History for later viewing if needed. The default ROOM STATUS screen is shown.

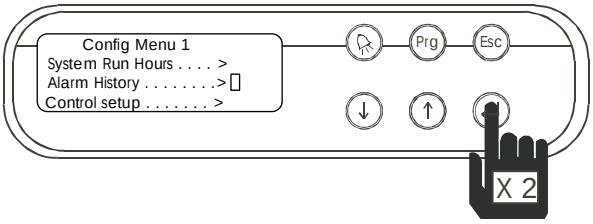


The meanings of these alarms, along with checks and corrections, is in the section “Diagnostics”.

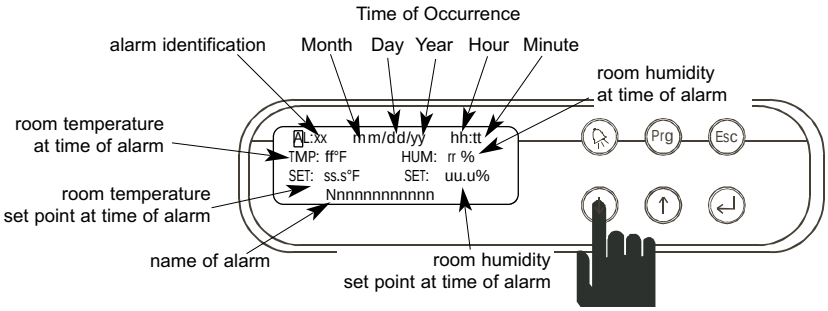
Select **Configuration Menu 1** by pressing ***Prg*** and ***Esc*** at the same time.



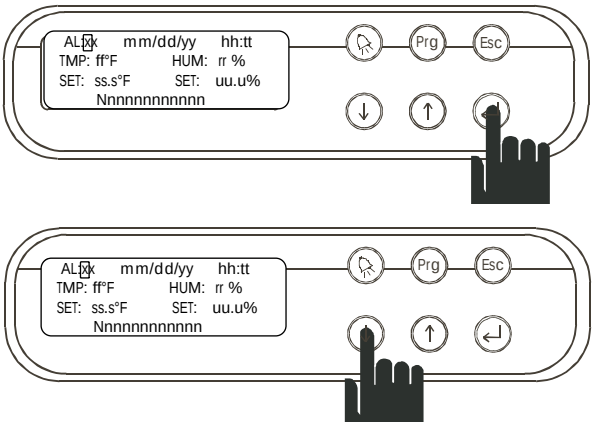
To **select Alarm History**, press ENTER twice.



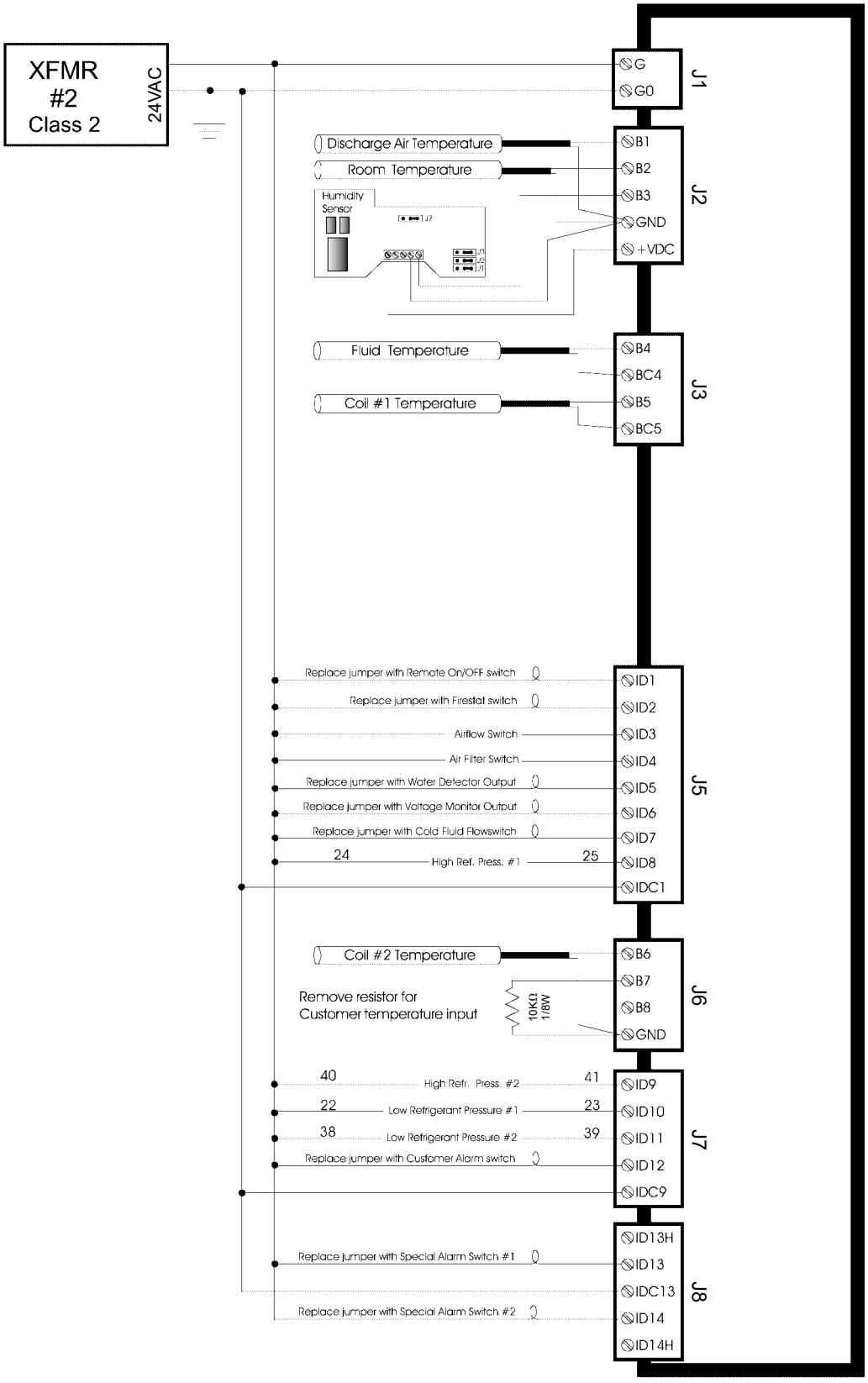
To **view the last alarm**, press **DOWN**.



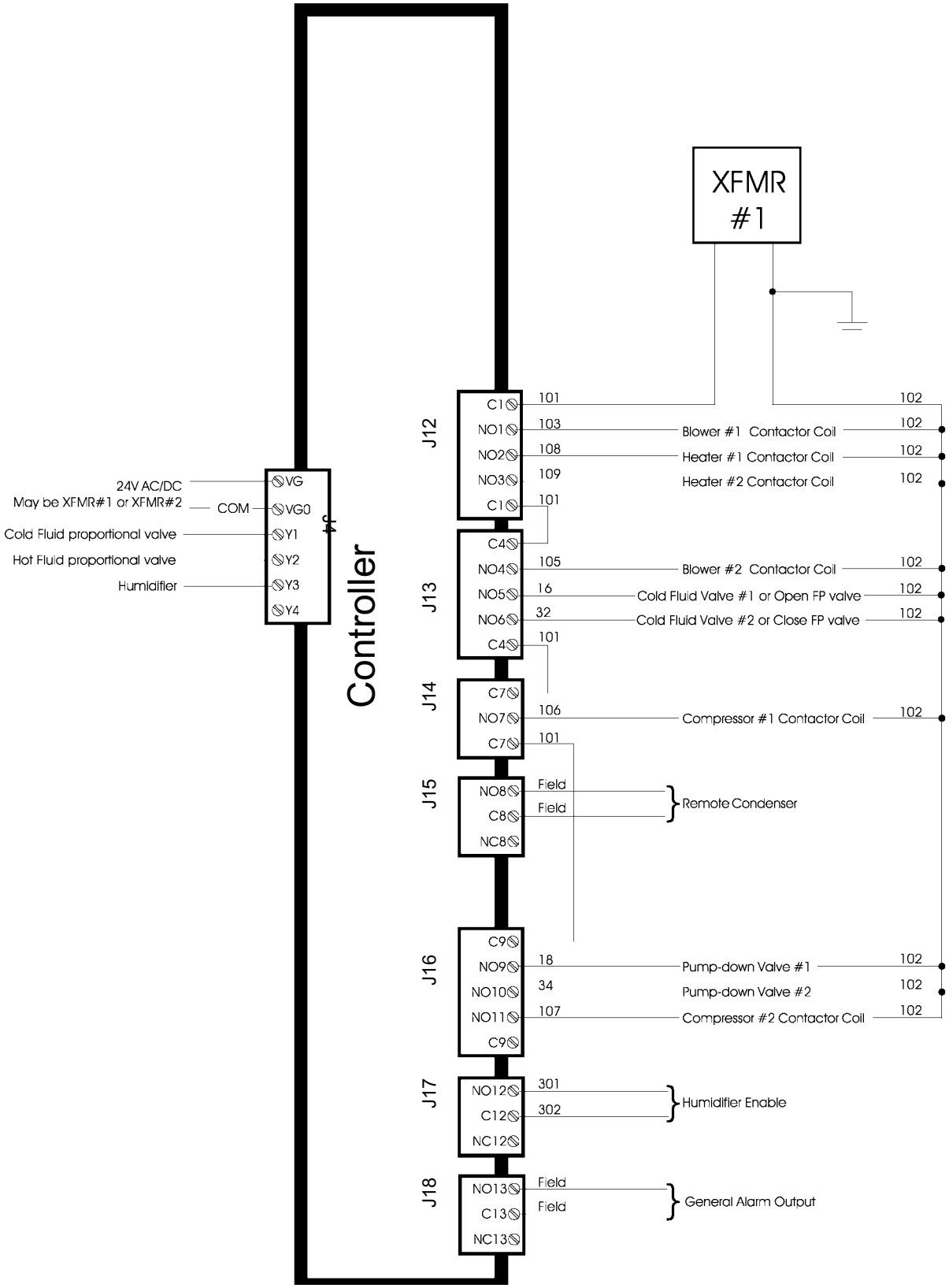
To **view previous alarms**, press **ENTER** to move the cursor to the alarm identification, then press **DOWN** repeatedly.



The display will return to ROOM STATUS after a short delay.


XFMR
#2
Class 2
24VAC
J1
G
G0
Discharge Air Temperature
Room Temperature
Humidity
Sensor
J2
B1
B2
B3
GND
+VDC
Fluid Temperature
Coil #1 Temperature
J3
B4
BC4
B5
BC5
Replace jumper with Remote On/OFF switch
Replace jumper with Firestat switch
Airflow Switch
Air Filter Switch
Replace jumper with Water Detector Output
Replace jumper with Voltage Monitor Output
Replace jumper with Cold Fluid Flowswitch
24
High Ref. Press. #1
25
J5
ID1
ID2
ID3
ID4
ID5
ID6
ID7
ID8
IDC1
Coil #2 Temperature
Remove resistor for
Customer temperature input
10KΩ
1/8W
J6
B6
B7
B8
GND
40
High Refr. Press. #2
41
22
Low Refrigerant Pressure #1
23
38
Low Refrigerant Pressure #2
39
Replace jumper with Customer Alarm switch
J7
ID9
ID10
ID11
ID12
IDC9
Replace jumper with Special Alarm Switch #1
Replace jumper with Special Alarm Switch #2
J8
ID13H
ID13
IDC13
ID14
ID14H

Output Wiring



	CHECKS	CORRECTIONS
*** ALARM *** 00:00 00/00 Change Air Filters	1. Be sure that the air flow was correctly adjusted at installation.	• Consult air balancing records.
	2. Check filters.	• Filters must be kept clean. Replace as necessary.
*** ALARM *** 00:00 00/00 Loss of Air flow Check Fan	3. Check blower operation.	• Blowers must turn in proper direction.
	4. Check blower belt for slipping.	• Tighten or replace as necessary.
	5. Check blower motor operation. Operate motor contactor. Measure contactor terminal voltage. Check blower fuses.	• Reset motor overloads. • Correct as necessary. • Replace as necessary.
	6. Check controller output.	• Check by wiring diagram above. The voltage between C8 and NO8 should be zero in cooling mode and 24VAC at other times.
	7. Check external duct dampers (by others).	• Open as necessary for proper air flow.
	8. Check that diffusers are open.	• Open as necessary.
	9. Check air flow sensor and connections.	• Be sure all tubes and wires are connected. • Re-adjust set point if necessary. Consult factory for method.
*** ALARM *** 00:00 00/00 Compressor 1 High Pressure	1. Check that remote condenser (if any) operates on controller demand.	• Check remote control wires for continuity. The voltage between C8 and NO8 should be zero in cooling mode and 24VAC at other times.
	2. Check that remote condenser (if any) has adequate clearance from obstacles.	• Allow at least the width of the condenser between the condenser and any other object. Any fences should be open at the bottom.
*** ALARM *** 00:00 00/00 Compressor 2 High pressure	3. Check that remote condenser (if any) has sufficient flow of air and that the air is less than 105°F.	• Check for leaves or trash obstructing air flow. Be sure condenser is located in an area that will not cause recirculation of heated air through the condenser.
	4. For water cooled units, check that water is flowing and of proper temperature.	• Water temperature and flow rate should be as specified in the installation guidelines.
	5. Check that all refrigerant isolation valves are open.	• Open as necessary.

Diagnostics

	CHECKS	CORRECTIONS
*** ALARM *** 00:00 00/00 Fire detected	1. Check for fire or smoke.	• If fire or smoke is found, follow proper emergency procedures.
	2. Check for fire alarm input - voltage from ID2 to G.	• If voltage is 0AC, check controller operation. If voltage is not 0VAC, check continuity of cable to fire detector. Check operation of fire detector.
*** ALARM *** 00:00 00/00 Water detected under floor	1. Check for water leakage into underfloor area. If present, determine the point of leakage.	• If the water is leaking from a water-cooled condenser (if any), locate and correct the leak. • If the water is from the evaporator drain pan, check that the P-trap has been filled before operation. • Check that the P-trap and other drain lines are free of obstructions. • Check that there are no unexpected traps in the drain line. • Check that the drain discharges to a height below the drain pan. If a condensate pump is used, be sure it works. • If the water is due to carry-over from the evaporator, check that the air flow is correct. Carryover is due to excessive air flow.
	2. If no water is present, check the water detector input - voltage between ID5 and G should be 0VAC.	• If the voltage is 0VAC, check operation of the controller. If the voltage is not 0VAC, then- • Check that 24VAC is applied between the terminals marked 24VAC COM and 24VAC on the water detector. Correct as necessary. • Check continuity of wires 352, 353, and 354. • Check that wire 352 is connected to the NC output of the water detector. • Check the water detector electrodes for dirt or corrosion. Clean or replace as necessary.
*** ALARM *** 00:00 00/00 Phase error detected	1. Check that the voltage supplied to the unit is within ±10% of that specified on the nameplate.	• Correct as necessary.
	2. Check that all three phases are present. This cannot be done while any unit motor is running.	• Turn OFF all unit motors and check phase-phase voltages. These should be within ±1% of the average - see the installation section.
	3. Check that the phase rotation is correct.	• If the phase rotation is incorrect, disconnect the electric power. Swap any two power wires at the input lug. Reconnect the electric power. Refer to the installation section of the owner's manual.

*** ALARM ***
00:00 00/00
Compressor 1
Low pressure

*** ALARM ***
00:00 00/00
Compressor 2
Low pressure

CHECKS	CORRECTIONS
1. Check that there is adequate air flow. See alarm “Change air filters” above.	• As in alarm “Change air filters” above.
2. Check for dirt or corrosion on the evaporator.	• Clean or replace as necessary.
3. Check that the room temperature is within 20% of design specification.	• Correct temperature set points for design conditions.
4. Check that the room relative humidity is within 20% of design specification.	• Correct humidity set points for design conditions.
5. Check the refrigerant low pressure. It should be above 55 PSI after the compressor has been running for 2 minutes.	• Check operation of the liquid line solenoid valve. The valve should be open when the associated compressor is running, except in pump-down mode. • Check the refrigerant expansion valve setting. • Check that the pressure drop across the liquid line filter-drier is less than 5 PSI. • Add refrigerant if needed.
6. Check the operation of the refrigerant low pressure switch. It should open as the pressure falls below 20PSI and close as the pressure rises above 50 PSI.	• Adjust or replace as necessary.

Diagnostics

	CHECKS	CORRECTIONS
*** ALARM *** 00:00 00/00 Customer Alarm	1. Customer alarm is set up by the user. Check for the condition triggering the customer alarm.	• Correct as necessary.
	2. Check the input for this alarm voltage between ID12 and G should be 0VAC.	• If the voltage is 0VAC, check the operation of the controller. • If the voltage is not 0VAC, check the cable continuity.
*** ALARM *** 00:00 00/00 High Room Temperature	1. Check temperature of return air with a well-known thermometer.	• If Supervisaire® does not agree with well-known thermometer, see section on sensor calibration. • If room temperature is too high or too low, check and adjust temperature set point.
*** ALARM *** 00:00 00/00 Low Room Temperature	2. Check for unexpected loads such as open doors and windows, new electrical equipment, more people than usual, etc.	• Correct as necessary.
	3. Check resistance of sensor and cable.	• If the cable continuity is correct but the sensor resistance does not correspond to that shown in the chart for the known temperature, the sensor must be replaced.
*** ALARM *** 00:00 00/00 High Room Humidity	1. Check humidity with a well-known psychrometer.	• If Supervisaire® does not agree with well-known psychrometer, see section on sensor calibration. If the sensor is outside the ±10% calibration range, it must be replaced. • If room humidity is too high or too low, check and adjust humidity set point.
*** ALARM *** 00:00 00/00 Low Room Humidity	2. Check for unexpected loads such as open doors and windows, new electrical equipment, more people than usual, etc.	• Correct as necessary.

	CHECKS	CORRECTIONS
*** ALARM *** 00:00 00/00 Discharge Temp Sensor failure	1. Check the temperature of the supply air at the unit. 2. Check the resistance of the sensor and sensor wires.	• If Supervisaire® does not agree with a well-known thermometer, see section on sensor calibration. • If the cable continuity is correct but the sensor resistance does not correspond to that shown in the chart for the known temperature, the sensor must be replaced .
*** ALARM *** 00:00 00/00 Room temperature Sensor failure	1. Check the temperature of the return air at the unit. 2. Check the resistance of the sensor and sensor wires.	• If Supervisaire® does not agree with a well-known thermometer, see section on sensor calibration. • If the cable continuity is correct but the sensor resistance does not correspond to that shown in the chart for the known temperature, the sensor must be replaced.
*** ALARM *** 00:00 00/00 Room humidity Sensor failure	1. Using a well-known psychrometer, check the humidity of the return air at the unit. 2. Check the resistance of the sensor and sensor wires.	• If the Supervisaire® does not agree with a well-known psychrometer, see the section on sensor calibration. • Compare the voltage to that shown on the chart for this relative humidity. If the voltage is 0VDC or 19VDC, replace the sensor.
*** ALARM *** 00:00 00/00 Customer temperature Sensor failure	1. Check the temperature of the customer temperature sensor. 2. Check the resistance of the sensor and sensor wires.	• If Supervisaire® does not agree with a well-known thermometer, see section on sensor calibration. • If the cable continuity is correct but the sensor resistance does not correspond to that shown in the chart for the known temperature, the sensor must be replaced.

Diagnostics

Free-Cool Units Only

	CHECKS	CORRECTIONS
*** ALARM *** 00:00 00/00 High Coil 1 Temperature	1. Check temperature of Free-Cool fluid with a well-known thermometer.	• If Supervisaire® does not agree with a well-known thermometer, see section on sensor calibration. • If fluid temperature is too high, reduce Free-Cool control temperatures.
*** ALARM *** 00:00 00/00 High Coil 2 Temperature	2. Check the flow rate of the Free-Cool fluid.	• If the flow rate is too low, increase it as necessary.
	3. Check the resistance of the sensor and sensor wires.	• If the cable continuity is correct but the sensor resistance does not correspond to that shown in the chart for the known temperature, the sensor must be replaced.
*** ALARM *** 00:00 00/00 Low Coil 1 Temperature	1. Check temperature of Free-Cool fluid with a well-known thermometer.	• If Supervisaire® does not agree with a well-known thermometer, see section on sensor calibration. • If fluid temperature is too low, increase Free-Cool control temperatures.
*** ALARM *** 00:00 00/00 Low Coil 2 Temperature	2. Check the resistance of the sensor and sensor wires.	• If the cable continuity is correct but the sensor resistance does not correspond to that shown in the chart for the known temperature, the sensor must be replaced.
*** ALARM *** 00:00 00/00 Coil 1 Temperature Sensor Failure	1. Check temperature of air leaving evaporators with a well-known thermometer.	• If Supervisaire® does not agree with a well-known thermometer, see section on sensor calibration.
*** ALARM *** 00:00 00/00 Coil 2 Temperature Sensor Failure	2. Check the resistance of the sensor and sensor wires.	• If the cable continuity is correct but the sensor resistance does not correspond to that shown in the chart for the known temperature, the sensor must be replaced.

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1.800.387.1930
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10935 Crabapple Rd.
Suite 202-A
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30075

2180 Dunwin Drive, Unit 7
Mississauga, ON
Canada L5L 1C7

3999 Cote Vertu
Montreal, QC
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Fax: 905.828.5018
www.ecosaire.com
e-mail: info@ecosaire.com

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